

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0851-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Complete if Known

Application No.	10/822,563
Filing Date	April 8, 2004
First Named Inventor	Baki Acikel
Art Unit	Not yet known 2823
Examiner Name	Not yet known Maldonado
Attorney Docket Number	22994-07841

Sheet 1 of 3

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document No. Number - Kind Code ² (if known)	Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		US-5,721,700	02-24-1998	Katoh
		US-5,790,367	08-04-1998	Mateika et al.
		US-6,077,737	06-20-2000	Yang et al.
		US-6,300,654 B1	10-09-2001	Corvasce et al.
		US-6,383,858 B1	05-07-2002	Gupta et al.
		US-6,432,794 B1	08-13-2002	Lou
		US-6,452,776 B1	09-17-2002	Chakravorty

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ - Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY.	Name of Patentee or Applicant of Cited Document	T ⁶

OTHER REFERENCES - NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ⁶
		Acikel, Baki et al., "A New High Performance Phase Shifter using (Ba _x Sr _{1-x} TiO ₃ Thin Films," <i>IEEE Microwave and Wireless Components Letters</i> , Vol. 12, No. 7, July 2002, pages 237-239.	
	1	Acikel, Baki et al., "BST Varactor Design and Fabrication," project funded by DARPA FAME Program, 1 page [online], [retrieved on 2004-06-28]. Retrieved from the Internet <URL: http://my.ece.ucsb.edu/yorklab/Projects/Ferroelectrics/Devices/bstdevicedesign.htm >.	
	2	Acikel, Baki et al., "Overview of Program," DARPA FAME Program, 8 pages [online], [retrieved on 2004-06-23]. Retrieved from the Internet <URL: http://my.ece.ucsb.edu/yorklab/Projects/Ferroelectrics/Devices/DeviceDesign.pdf >.	
	3	Acikel, Baki et al., "Technology Comparison," DARPA FAME Program, 6 pages [online], [retrieved on 2004-06-23]. Retrieved from the Internet <URL: http://my.ece.ucsb.edu/yorklab/Projects/Ferroelectrics/Devices/VaractorComparison.pdf >.	

Examiner Signature		Date Considered	6/14/2006
--------------------	--	-----------------	-----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609.

Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

22994/07841/DOCS/1441526.1

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT			Application No.	10/822,563	
			Filing Date	April 8, 2004	
			First Named Inventor	Baki Acikel	
			Art Unit	Not yet known 2823	
			Examiner Name	Not yet known Maldonado	
Sheet	2	of	3	Attorney Docket Number	22994-07841

OTHER REFERENCES - NON-PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published		
ER		Erker, Erich G. et al., "Monolithic Ka-Band Phase Shifter Using Voltage Tunable BaSrTiO ₃ Parallel Plate Capacitors," <i>IEEE Microwave and Guided Wave Letters</i> , Vol. 10, No. 1, January 2000, pages 10-12.		
	4	IMS2000 Workshop "Ferroelectric Materials and Microwave Applications," 1 page [online], [retrieved on 2004-06-28]. Retrieved from the Internet <URL: http://my.ece.ucsb.edu/yorklab/Projects/Ferroelectrics/IMS2000%20Workshop/ims2000_workshop.htm >.		
		Liu, Yu et al., "BaSrTiO ₃ Interdigitated Capacitors for Distributed Phase Shifter Applications," <i>IEEE Microwave and Guided Wave Letters</i> , Vol. 10, No. 11, November 2000, pages 448-450.		
		Liu, Yu et al., "High-performance and Low-cost Distributed Phase Shifters Using Optimized BaSrTiO ₃ Interdigitated Capacitors," Electrical and Computer Engineering Dept., Materials Dept., University of California at Santa Barbara, Santa Barbara, CA 93106, 14 pages [online], [retrieved on 2003-06-24]. Retrieved from the Internet <URL: http://my.ece.ucsb.edu/yorklab/Publications/pubs.htm >.		
	5	Nagra, Amit S. et al., "Distributed Analog Phase Shifters with Low Insertion Loss," <i>IEEE Transactions on Microwave Theory and Techniques</i> , Vol. 47, No. 9, September 1999, pages 1705-1711.		
		Padmini, P. et al., "Realization of High Tunability Barium Strontium Titanate Thin Films by RF Magnetron Sputtering," <i>Applied Physics Letters</i> , Vol. 75, November 1999, pages 3186-3188.		
		Serraicocco, J. et al., "Tunable Passive Integrated Circuits Using BST Thin Films," presented at IFFF 2002, International Joint Conference on the Applications of Ferroelectrics, Kyoto, Japan, May 2002, 10 pages [online], [retrieved on 2003-06-24]. Retrieved from the Internet <URL: http://my.ece.ucsb.edu/yorklab/Publications/pubs.htm >.		
		Taylor, T.R. et al., "Impact of thermal strain on the dielectric constant of sputtered barium strontium titanate thin films," <i>Applied Physics Letters</i> , Vol. 80, No. 11, 18 March 2002, pages 1978-80.		
		Taylor, T.R. et al., "Optimization of RF Sputtered Barium Strontium Titanate (BST) Thin Films for High Tunability," presented at MRS Conference, Fall 1999, 2 pages [online], [retrieved on 2003-06-24]. Retrieved from the Internet <URL: http://my.ece.ucsb.edu/yorklab/Publications/pubs.htm >.		
		Taylor, T.R. et al., "RF Sputtered High Tunability Barium Strontium Titanate (BST) Thin Films for High Frequency Applications," presented at ISIF 2000 Conference, Aachen, Germany, March 2000, 2 pages [online], [retrieved on 2003-06-24]. Retrieved from the Internet <URL: http://my.ece.ucsb.edu/yorklab/Publications/pubs.htm >.		
ER	6	Taylor, Troy et al., "BST Growth Optimization," project funded by DARPA FAME Program, 2 pages [online], [retrieved on 2004-06-28]. Retrieved from the Internet <URL: http://my.ece.ucsb.edu/yorklab/Projects/Ferroelectrics/Materials/growthopt.htm >.		

Examiner Signature	<i>Julius Maldonado</i>	Date Considered	<i>06/14/2004</i>
--------------------	-------------------------	-----------------	-------------------

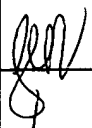

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609.

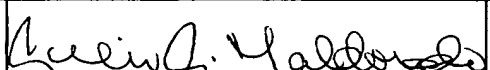
Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT			Application No.	10/822,563	
			Filing Date	April 8, 2004	
			First Named Inventor	Baki Acikel	
			Art Unit	Not yet known 2823	
			Examiner Name	Not yet known Maldonado	
Sheet	3	of	3	Attorney Docket Number	22994-07841

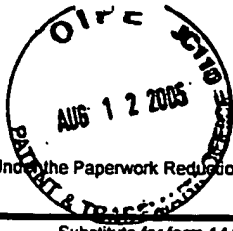
OTHER REFERENCES – NON-PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published		
	7	Taylor, Troy et al., "Loss Model for BST Test Capacitors," DARPA FAME Program, 6 pages [online], [retrieved on 2004-06-23]. Retrieved from the Internet <URL: http://my.ece.ucsb.edu/yorklab/Projects/Ferroelectrics/Materials/LowFrequency.pdf >.		
	8	Taylor, Troy et al., "Materials Issues To Be Explored," DARPA FAME Program, 10 pages [online], [retrieved on 2004-06-23]. Retrieved from the Internet <URL: http://my.ece.ucsb.edu/yorklab/Projects/Ferroelectrics/Materials/growth.pdf >.		
	9	York, Bob et al., "Thin-Film Ferroelectrics: Deposition Methods and Applications," presented at the International Microwave Symposium in Boston, MA, June 2000, page 20 [online], [retrieved on 2004-06-23]. Retrieved from the Internet <URL: http://my.ece.ucsb.edu/yorklab/Projects/Ferroelectrics/IMS2000%20Workshop/Bob-oral.pdf >.		
	10	York, Professor Bob, "Books and Book Chapters," Microwave Electronics Lab, 4 pages [online], [retrieved on 2004-06-23]. Retrieved from the Internet <URL: http://my.ece.ucsb.edu/yorklab/Publications/pubs.htm >.		
		York, R. et al. "Microwave Integrated Circuits using Thin-Film BST," presented at ISAF Conference, Honolulu, Hawaii, July 21-August 2, 2000, 6 pages [online], [retrieved on 2003-06-24]. Retrieved from the Internet <URL: http://my.ece.ucsb.edu/yorklab/Publications/pubs.htm >.		
		York, Robert A. et al., "Synthesis and Characterization of (Ba _x Sr _{1-x})Ti _{1-y} O _{3+z} Thin Films and Integration into Microwave Varactors and Phase Shifters," <i>Journal of Integrated Ferroelectrics</i> , Vol. 34, April 10, 2000, pages 177-188.		
		York, Robert A. et al., "Thin-Film Phase Shifters for Low-Cost Phased Arrays," presented at Workshop on Affordability and Cost Reduction for Radar Systems, Huntsville, Alabama, April 2000 and at URSI Conference, Salt Lake City, Utah, July 2000, 10 pages [online], [retrieved on 2003-06-24]. Retrieved from the Internet <URL: http://my.ece.ucsb.edu/yorklab/Publications/pubs.htm >.		

Examiner Signature		Date Considered	04/14/2004
--------------------	---	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809.

Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Complete if Known	
				Application No.	10/822,563
				Filing Date	April 8, 2004
				First Named Inventor	Baki Acikel
				Art Unit	2811 2823
				Examiner Name	Junghwa M. Im Maldonado
Sheet	1	of	81	Attorney Docket Number	22994-07841

U.S. PATENT DOCUMENTS				
Examiner Initials*	Cite No. ¹	Document No. Number - Kind Code ² (if known)	Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		US-6,377,440	04-23-2002	Zhu et al.
		US-6,737,930	05-18-2004	Toncich

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ - Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T ⁶

OTHER REFERENCES – NON-PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ⁶	

Examiner Signature		Date Considered	08/14/2004
--------------------	--	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609.

Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

22994/07841/DOCS/1548339.1